

**WHAT IS CLAIMED IS:-**

1. A printer cartridge for an inkjet printer including:
  - an ink storage reservoir;
  - a printhead in communication with said ink storage reservoir;
  - 5 a refill port in communication with the ink storage reservoir and arranged to receive refill ink for replenishing the ink storage reservoir; and
  - an integrated circuit assembly arranged to store information relating to the properties of at least one of the refill ink and the ink stored in the ink storage reservoir.

10 2. A printer cartridge according to claim 1, wherein the information relating to the properties of the refill ink or the ink stored in the ink storage reservoir includes any of:

- the amount of ink remaining in the ink storage reservoir;
- the origin of the refill ink;
- the rheological properties of the refill ink; and

15 the color of the refill ink.

3. A printer cartridge according to claim 1, wherein the integrated circuit assembly includes an electrical contact mounted upon the inkjet printer for connection with an integrated circuit of a refill cartridge containing the refill ink.

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4. A printer cartridge according to claim 1, wherein the printhead is a pagewidth printhead.

5. A method for maintaining the authenticity of an ink supply of an inkjet printer of a type including a removable printer cartridge containing an ink storage means in communication with a pagewidth printhead, the method including the steps of:

25 providing an ink refill cartridge including an intergrated circuit assembly that stores information relating to the properties of the refill ink;

connecting the ink refill cartridge to the printer cartridge; and

performing a test to compare the properties of the refill ink with the properties of the ink stored 30 in the ink storage means.